SOFAMEL

PRODUCT SHEET

Gloves / Composite insulating gloves

3 in 1 Protection: Electrical Mechanical Arc-flash

30202 SGM



Composite insulating gloves provide electrical, mechanical, and arc-flash protection; therefore, it is not necessary to use them in combination with a separate mechanical protective over-glove. The Composite glove range is made using a natural latex base coated with an outer layer of polychloroprene, combining mechanical resistance and comfort with a high level of electrical protection.
Arc-flash protection: the glove is manufactured from a material that provides a high level of protection against arc flash.

CE IEC 60903 | IEC 61482-1-2
ASTM F2675/F2675M:23



Red external finish with beige internal finish.

Code	Ref.	Class	Thickness (mm) max.	Thickness (mm) medium	Working voltage (V) max.	Proof test voltage (V) max.	Size	Length (mm)	Category
531110 531120	SGM-25 T9 SGM-25 T10	00	< 2.4	1.5	500 V AC	2.500 V AC	7*	360	RC
531150 531160	SGM-50 T9 SGM-50 T10	0	< 2.9	1.6	1.000 V AC	5.000 V AC	8*	410	
531190 531200	SGM-10 T9 SGM-10 T10	1	< 3.4	1.8	7.500 V AC	10.000 V AC	9		
531230 531240	SGM-20 T9 SGM-20 T10	2	< 3.9	2.5	17.000 V AC	20.000 V AC	10		
531270 531280	SGM-30 T9 SGM-30 T10	3	< 4.2	3.1	26.500 V AC	30.000 V AC	11		
531310 531320	SGM-40 T10 SGM-40 T11	4	< 4.8	3.8	36.000 V AC	40.000 V AC	12*		

Meaning of letters in 'Categories': A: Acid / Z: Ozone / H: Oil / C: Very low temperature / R: A+Z+H resistance.
* For sizes 7, 8 and 12 consult.

MECHANICAL AND THERMAL REQUIREMENTS

- Average tensile strength: ≥16 MPa
- Average elongation at break: ≥600%
- Tension set: ≤15%

- **Complementary tests and performance levels to be achieved:**
  - Cutting resistance: >20 mm and 5 N, according to ISO 13997. (equivalent to level 2 according to EN 388)
  - Abrasion resistance: ≥0.05 mg/t
  - Tear resistance: >25 N (equivalent to level 2 according to EN 388)
  - Puncture resistance: >60 N (equivalent to level 2 according to EN 388)
  - Resistance to very low temperatures: gloves conditioned for 24 hours at -40 °C ± 3 °C
  - Flame-retardant test: application of a flame for 10 seconds to the fingertip.

Available in sizes:

7 8 9 10 11 12



Recommended size	9	10	11
Circumference in cm	21	24	26

Measured with the hand closed.



MANUFACTURING AND RETESTING OF INSULATING GLOVES

At Sofamel, we operate a fully dedicated production line for the manufacture of latex insulating gloves. Our processes are certified to the ISO 9001:2015 quality standard and comply with the requirements of EN 60903:2003 and IEC 60903:2014.

We also have a specially designed glove retesting booth for carrying out electrical tests, enabling us to provide all our customers with the best after-sales service for dielectric gloves.









YOUR SAFETY IS VITAL

THEREFORE, REGULAR INSPECTIONS OF INSULATING GLOVES ARE ESSENTIAL

RECOMMENDATIONS FOR THE MAINTENANCE AND VERIFICATION OF INSULATING GLOVES
Insulating gloves for live working are personal protective equipment (PPE) that prevent electrical hazards and are classified as Category III (fatal risk) under EU Directive 2016/425. The reference standards (EN 60903 and IEC 60903) define the recommendations for their use and inspection.

CLASS 0 and 00 GLOVES	Air leakage test and visual inspection	**RECOMMENDED BEFORE EACH USE**
	Dielectric properties test	**UPON CUSTOMER REQUEST**
CLASS 1 and 4 GLOVES	Air leakage test and visual inspection	**RECOMMENDED BEFORE EACH USE**
	Dielectric properties test	**MANDATORY** • Every 6 months from the start of service. • Maximum of 12 months from the date of manufacture if not used.

THE DEFINITION OF A GLOVE'S LIFESPAN IN NO WAY EXEMPTS THE RECOMMENDATIONS FOR PERIODIC INSPECTIONS.

Storage conditions
According to EN 60903 and IEC 60903 standards for Class C, gloves can be used at ambient temperatures between -40 °C and +55 °C. They are delivered in a UV-resistant plastic bag suitable for transport and storage. Store the gloves in a dry, dark place at temperatures between 10 °C and 21 °C. Do not compress, fold, or store them near sources of heat, light, or ozone.